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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,082	02/13/2006	Abdulsalam Al-Mayahi	66307361	8059
DYKEMA GOSSETT PLLC FRANKLIN SQUARE, THIRD FLOOR WEST 1300 I STREET, NW WASHINGTON, DC 20005			EXAMINER	
			NGUYEN, HOANG M	
			ART UNIT	PAPER NUMBER
	,		3748	
			[
			MAIL DATE	DELIVERY MODE
			10/30/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/568,082	ABDULSALAM AL-MAYAHI ET AL			
Office Action Summary	Examiner	Art Unit			
	Hoang M. Nguyen	3748			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be til will apply and will expire SIX (6) MONTHS from the cause the application to become ARANDONE	N. mely filed the mailing date of this communication.			
Status					
Responsive to communication(s) filed on This action is FINAL . 2b)⊠ This Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the drawing(s) be held in abeyance. Selion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 11-16-06. 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Application/Control Number: 10/568,082

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5, 9-11, 15-16, are rejected under 35 U.S.C. 102(b) as being anticipated by US 4177146 (Popper et al).

Popper et al discloses a power plant comprising osmosis cells 30, 30', 66, 66', 110, 110', having membranes 32, 32', 70, 70', 114, 114', between a liquid (seawater) and a solution having higher osmotic potential than the liquid, to generate pressure for driving prime movers 52, 88, 140, the solution is recovered and separated through nozzle 98 and the salt is going back for recycled to vessel 94.

Regarding claims 3-5, note column 9, lines 30-32, Popper et al discloses the solution that meets the claimed limitations.

Regarding claim 16, please not the fluid in Popper et al has potential energy to drive the prime mover at the lower location.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-21 are rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. 3906250 (Loeb) in view of U.S. 4177146 (Popper et al). Loeb discloses a power

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plant comprising chamber 124 for generating pressure for driving a prime mover 126, a distillation plant 130, the solution is recycled back 128. Loeb does not disclose the osmosis cells using membranes. Popper et al discloses a power plant comprising osmosis cells 30, 30', 66, 66', 110, 110', having membranes 32, 32', 70, 70', 114, 114', between a liquid (seawater) and a solution having higher osmotic potential than the liquid, to generate pressure for driving prime movers 52, 88, 140, the solution is recovered and separated through nozzle 98 and the salt is going back for recycled to vessel 94. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to use osmosis cell with membranes in Loeb as taught by Popper et al for the purpose of more effectively generating pressures across the chamber. Regarding claims 5-8, 12-14, 17-20, it would have been obvious for a person having ordinary skill in the art to select different types of solutions, methods of distillation, solvent removal, membranes and temperature sources in Loeb for the purpose of generating appropriate power outputs.

Claims 5-8, 12-14, 17-20, are rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. 4177146 (Popper et al). Popper et al teaches all the claimed subject matter as set forth above in the rejection of claim 1, but does not disclose different solutions, methods of distillation, solvent removal, membranes and temperature sources/levels. However, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to select different types

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of solutions, methods of distillation, solvent removal, membranes and temperature sources in Loeb for the purpose of generating appropriate power outputs.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Taylor, Weingarten, Prueitt, Kawashima et al, and Loeb disclose osmosis power plants.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Examiner Nguyen whose telephone number is (571) 272-4861. The examiner can normally be reached on Tuesday--Friday from 12:30 AM to 10:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion can be reached on 571-272-4859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HOANG NGUYEN PRIMARY EXAMINER ART UNIT 3748

Hoang Minh Nguyen 10/28/2007

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